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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,601	08/31/2001	Kia Silverbrook	AP72US	7470
24011	7590	12/06/2004	EXAMINER	
SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, 2041 AUSTRALIA			KIM, PETER B	
			ART UNIT	PAPER NUMBER
			2851	

DATE MAILED: 12/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/942,601	SILVERBROOK, KIA
	<b>Examiner</b>	<b>Art Unit</b>
	Peter B. Kim	2851

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 11 October 2004.

2a) This action is **FINAL**.                                    2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-9 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-9 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \*    c) None of:

- Certified copies of the priority documents have been received.
- Certified copies of the priority documents have been received in Application No. 09/436,750.
- Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.

4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.

5) Notice of Informal Patent Application (PTO-152)

6) Other: \_\_\_\_\_.

## DETAILED ACTION

Applicant's arguments filed on Oct. 11, 2004 have been fully considered.

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-6, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bobry (6,229,565) in view of Akhavain et al. (Akhavain) (6,543,880).

Bobry discloses an apparatus for recording and generating images (Fig. 1) comprising: a printing unit (26) that comprises a carrier (Fig. 3), a page width print head (30), an ink supply (30), a media cartridge for holding a roll of media (28), a media feed mechanism (col. 5; lines 25-43), a housing (col. 4, lines 35-40), an image sensing device (14) with an microprocessor with data bus connected across the image sensing device, the microprocessor and the image recordal apparatus (Fig. 7) to control the operation of the image sensing device and communicating with the printing unit (col. 7, lines 15-67). Bobry also discloses carrier that is substantially rectangular (Fig. 1 and 3) with the print head and the ink supply mounted on an end portion and the media feed mechanism at intermediate the end portion and a remaining portion (Fig. 1). Bobry does not disclose the carrier dimensioned to a PCMCIA card and an ink distribution with a pair of ink reservoirs, a pair of storage, and a pair of feed channels in fluid communication with print head chip so that ink can be fed to a nozzle. Although Bobry does not disclose the carrier that is dimensioned to a PCMCIA card and sheets of media, it would have been obvious to one

of ordinary skill in the art at the time of the invention to decrease the size of the camera and the printing unit including the carrier to the smallest possible size because it is well known in the art that smaller size is desired for convenience of easy handling and carrying. Akhavain discloses in Fig. 4-6, an ink distribution with a pair of ink reservoirs, a pair of storage, and a pair of feed channels in fluid communication with print head chip so that ink can be fed to a nozzle (col. 6, lines 17-40). It would also have been obvious to one of ordinary skill in the art to provide cut sheets of media instead of the roll because unlike a roll, with the cut sheets the cutting means is not needed, and having one less structure helps decreasing the size of the carrier which is desirable in the art for the reasons of convenience and it would have been obvious to one of ordinary skill in the art at the time of invention to provide the ink distribution of Akhavain to the invention of Bobry in order for precise aligning and mounting of the ink distribution and print head as taught by Akhavain in col. 1, lines 49-67.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bobry in view of Akhavain et al. as applied to claim1 above, and further in view of Hawkins et al. (Hawkins) (6,154,254).

The further difference between the modified Bobry and the claimed invention is the CMOS device that is the image sensing device. Hawkins discloses in the abstract and in col. 3, lines 31-53, an image capture and printing system with image sensor that is a CMOS device. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify the invention of Bobry with the CMOS device of Hawkins in order to transfer

in parallel to the printing device electron charges or voltage signal from the sensor as taught by Hawkins in col. 3, lines 35-40.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bobry in view of Akhavain as applied to claim1 above, and further in view of Kokubo (6,007,195).

The further difference between the modified Bobry and the claimed invention is the PCMCIA-type connectors. Kokubo discloses a detachable scanning printer with a PCMCIA interface (Fig. 1) with at least half the carrier, which is dimensioned to approximate a PCMCIA memory card, is received in the housing (Fig. 1). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to provide the scanning printer unit of Kokubo to the invention of McIntyre in order to provide an interface between the camera and the printer unit as taught by Kokubo in col. 1, lines 40-61 to provide more effective communication between the printer and the camera.

#### *Response to Arguments*

Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection, which was necessitated by amendment.

#### *Conclusion*

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter B. Kim whose telephone number is (571) 272-2120. The examiner can normally be reached on 8:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Peter B. Kim  
Primary Examiner  
Art Unit 2851